

IN THE CLAIMS

For the convenience of the Examiner, all pending claims are set forth below, whether or not an amendment is made.

1. **(Original)** A method for performing compression, comprising:
 receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;
 ignoring a change in the predetermined increment associated with the packet identifiers;
 compressing the plurality of packets; and
 transmitting the flow to a decompressor.
2. **(Original)** The method of Claim 1, further comprising:
 receiving the flow at the decompressor, each packet of the flow having a sequence number;
 detecting a skip in the sequence numbers of the plurality of packets of the flow; and
 accepting the flow having the skip in the sequence numbers.
3. **(Original)** The method of Claim 1, further comprising:
 determining that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;
 establishing that the flow comprises a compressed packet in the place of a full header packet; and
 establishing that the full header packet is lost.

4. **(Original)** A system for performing compression, comprising:
a compressor operable to:
 receive a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;
 ignore a change in the predetermined increment associated with the packet identifiers;
 compress the plurality of packets; and
 transmit the flow; and
a decompressor coupled to the compressor operable to decompress the flow.
5. **(Original)** The system of Claim 4, the decompressor further operable to:
receive the flow, each packet of the flow having a sequence number;
detect a skip in the sequence numbers of the plurality of packets of the flow; and
accept the flow having the skip in the sequence numbers.
6. **(Original)** The system of Claim 4, the decompressor further operable to:
determine that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;
establish that the flow comprises a compressed packet in the place of a full header packet; and
establish that the full header packet is lost.

7. **(Original)** Logic for performing compression, the logic embodied in a medium and operable to:

receive at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;
ignore a change in the predetermined increment associated with the packet identifiers;
compress the plurality of packets; and
transmit the flow to a decompressor.

8. **(Original)** The logic of Claim 7, further operable to:
receive the flow at the decompressor, each packet of the flow having a sequence number;

detect a skip in the sequence numbers of the plurality of packets of the flow; and
accept the flow having the skip in the sequence numbers.

9. **(Original)** The logic of Claim 7, further operable to:
determine that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;
establish that the flow comprises a compressed packet in the place of a full header packet; and
establish that the full header packet is lost.

10. **(Canceled)**

11. **(Canceled)**

12. **(Canceled)**

- 13. **(Canceled)**
- 14. **(Canceled)**
- 15. **(Canceled)**
- 16. **(Canceled)**
- 17. **(Canceled)**
- 18. **(Canceled)**
- 19. **(Canceled)**
- 20. **(Canceled)**
- 21. **(Canceled)**
- 22. **(Canceled)**
- 23. **(Canceled)**
- 24. **(Canceled)**
- 25. **(Canceled)**

26. **(Original)** A method for performing compression, comprising:
receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;
ignoring a change in the predetermined increment associated with the packet identifiers;
compressing the plurality of packets;
transmitting the flow to a decompressor;
receiving the flow at the decompressor, each packet of the flow having a sequence number;
detecting a skip in the sequence numbers of the plurality of packets of the flow;
accepting the flow having the skip in the sequence numbers;
determining that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;
establishing that the flow comprises a compressed packet in the place of a full header packet; and
establishing that the full header packet is lost.

27. **(Canceled)**

28. **(New)** The method of Claim 1, further comprising:
determining at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier;
establishing that the context identifier is available; and
assigning the context identifier to the flow in response to establishing that the context identifier is available.

29. (New) The method of Claim 1, further comprising:
determining at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period; and
establishing that the context identifier is available.

30. (New) The method of Claim 1, further comprising:
establishing that a context identifier is available;
assigning the context identifier to the flow;
appending a full header packet corresponding to the context identifier to the flow; and
transmitting the flow to the decompressor.

31. (New) The system of Claim 4, the compressor further operable to:
determine that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier;
establish that the context identifier is available; and
assign the context identifier to the flow in response to establishing that the context identifier is available.

32. (New) The system of Claim 4, the compressor further operable to:
determine that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period; and
establish that the context identifier is available.

33. (New) The system of Claim 4, the compressor further operable to:
establish that a context identifier is available;
assign the context identifier to the flow;
append a full header packet corresponding to the context identifier to the flow; and
transmit the flow to the decompressor.

34. (New) The logic of Claim 7, further operable to:
determine at the compressor that a previous inactive time of a previous flow has
exceeded a previous maximum allowed inactivity period, the previous flow associated with a
context identifier;
establish that the context identifier is available; and
assign the context identifier to the flow in response to establishing that the context
identifier is available.

35. (New) The logic of Claim 7, further operable to:
determine at the compressor that a previous inactive time of a previous flow has
exceeded a previous maximum allowed inactivity period, the previous flow associated with a
context identifier, the previous inactive time exceeding the previous maximum allowed
inactivity period prior to exceeding an expiration period; and
establish that the context identifier is available.

36. (New) The logic of Claim 7, further operable to:
establish that a context identifier is available;
assign the context identifier to the flow;
append a full header packet corresponding to the context identifier to the flow; and
transmit the flow to the decompressor.

37. **(New)** A system for performing compression, comprising:
- means for receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;
 - means for ignoring a change in the predetermined increment associated with the packet identifiers;
 - means for compressing the plurality of packets; and
 - means for transmitting the flow to a decompressor.

38. (New) A method for performing compression, comprising:

- receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;
- ignoring a change in the predetermined increment associated with the packet identifiers;
- determining at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period;
- establishing that the context identifier is available;
- assigning the context identifier to the flow in response to establishing that the context identifier is available;
- appending a full header packet corresponding to the context identifier to the flow;
- compressing the plurality of packets;
- transmitting the flow to a decompressor;
- receiving the flow at the decompressor, each packet of the flow having a sequence number;
- detecting a skip in the sequence numbers of the plurality of packets of the flow;
- accepting the flow having the skip in the sequence numbers;
- determining that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;
- establishing that the flow comprises a compressed packet in the place of the full header packet; and
- establishing that the full header packet is lost.